

JIANGHAO GENERATOR

Genset

Model	JHP5-2000GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	2000kW/2500kVA
Standby Power	2170kW/2713kVA

Basic technical data

lumber of cylinders
Cylinder arrangement
Cycle
nduction system Turbocharged
Combustion system Direct injection
Compression ratio
Bore
Stroke
Cubic capacity 61.123 litres
Direction of rotation
Cylinder 1Furthest from flywheel
iote: Cylinders designated 'A' are on the right hand side of the engine when viewed from the flywheel end

Weight of ElectropaK

Temperate

Dry	kg
Wet	kg
Tropical	
Dry	kg

Overall dimensions of ElectropaK

Temperate

Length	. 4542 mm
Width	. 2185 mm
Height	. 3175 mm
Tropical	
Length	. 4562 mm

Length	
Width	
Height	

▶ Engine: Perkins 4016-61TRG3X

➢Alternator:Stamford/Leroy Somer

/Hengsheng

➢Controller:DeepSea/SmartGen

/DEIF/ComAp

Moment of inertia

Engine	10.89 kgm ²
Flywheel	
Total engine inertia	

Engine and flywheel.	 	 20.44 kgm ²

Cyclic irregularity, engine/flywheel standby power	
1500 rpm	ŧ.

Ratings

Operating point

Engine speed	
Static injection timing	See engine number plate
Cooling water exit temperature	

Fuel data

To conform to BS2869 class A2 or BS EN590.

Performance

Sound	pressure level 1500 rpm 119 dB(A)
Note:	All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions.
Note:	For engines operating in ambient conditions other than the standard reference conditions stated below a suitable de-rate must be applied.
Note:	De-rate tables for increased ambient temperature and/or attitude are available, please contact Perkins Applications Department.
Test	conditions

Test conditions

Air temperature	25°C
Barometric pressure	0 kPa
Relative humidity	.30%
Air inlet restriction at maximum power (nominal)	5 kPa
Exhaust back pressure at maximum power (nominal)	3 kPa
Fuel temperature (inlet pump)	imum

Energy balance

4016-61TRG3X

Designation	Units	1 500 rpm		
	Units	Baseload power	Prime power	
Energy in fuel	KVVt	4951	5458	
Energy in power output (gross)	kWb	1975	2183	
Energy to cooling fan	kWm		100	
Energy in power output (nett)	kWm	1875	2083	
Energy to exhaust	KV/Vt	1400	1535	
Energy to coolant and oil	KV//t	757	830	
Energy to radiation	kVVt	135	160	
Energy to charge coolers	kWt	684	750	

Note: Not to be used for combined heat and power (CHP) purposes (indicative figures only). If necessary, consult Perkins Engines Company Ltd.

P) purposes (indicative figures	only

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Lubrication system

Total system capacity

Maximum sump capacity
Minimum sump capacity
Oil temperature at normal operating conditions
Oil temperature (in rail) - Maximum continuous operations 105°C

Lubricating oil pressure

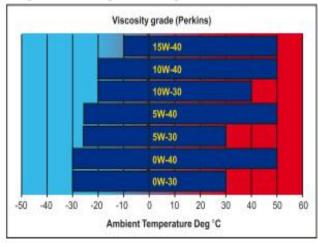
At rated speed	
Minimum @ 80°C	
Oil filter screen spacing	40 microns
Sump drain plug tapping size	G1
Oil Pump speed and method of drive 1.4 x e rpm	n, engine driven
Shutdown switch - pressure setting	193 kPa (falling)

Oil consumption

Prime power	Units	1500 rpm
After running in (typically after 250 hours)	g/kWhr	0.52
Oil flow rate from pump	litres/sec	6.7

Recommended SAE viscosity

Multigrade oil conforming to the following must be used API CG 15W/40.



Note: For additional notes on lubricating oil specifications, refer to the OMM manual.

Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless,
	Self-excited
Power factor	0.8
Voltage adjust	≦5%
range	
Insulation Grade	Н
Protection Grade	IP23/22
Phase / wire	3 phase 4 wires

Fuel consumption

4016-41 TRG3X, Temperate and Tropical		
Rating	g/kWh	litres/hr
Prime	209	529
Baseload	205	520
75% prime	200	349
50% prime	204	246
25% prime	220	145

Note: All based on assumed density of 0.862.

Note: All figures in the tables above are based on gross mechanical output, for fuel consumption based on electrical output of the generating set contact your OEM.

Exhaust system

Exhaust outlet size (internal).	2 x 254 mm
Exhaust outlet flange size 10	inch table D
Back pressure for total system	4 kPa

Electrical system

Alternator type	Insulated return
Alternator voltage	
Alternator output	
Starter motor type	2 x 24 Volt Electric
Starter motor power	
Number of teeth on flywheel	
Number of teeth on starter pinion	
Minimum cranking speed (0°C)	120 rpm
Starter solenoid pull-in current @ -25°C maximum	1 30 amps
Starter solenoid hold-in current @ -25°C maximur	m
Engine stop solenoid	
Hold-in current of stop solenoid	

Engine mounting

- NEMAMG1.JIANGHAO, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
- ♦ Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state.volts-per-hertz voltage regulator with +1% no-load to full-load regulation.



Control Panel



The control module gives digital readouts of: Generator voltage; Output frequency; Engine speed;

Battery voltage;

Engine hours run.





Dimension:7000*2720*3000mm Weight:14000kg Fuel Tank Capacity:1000-3000L No silent type The **control panel** is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

The control module has indicators for failure information:

Over speed/Low speed, Emergency stop Low oil pressure; High water temperature Failure to start Battery charger failure

Automatic shutdown occurs under:

Low engine oil pressure; High engine water temperature; Over speed/Low speed; Failure to start after three attempts.

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Wrapping film packaging
- Tray packaging
- plywood box packaging

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